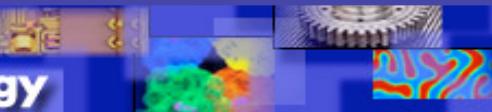


Slap Fingerprint Segmentation

Proprietary Fingerprint Template

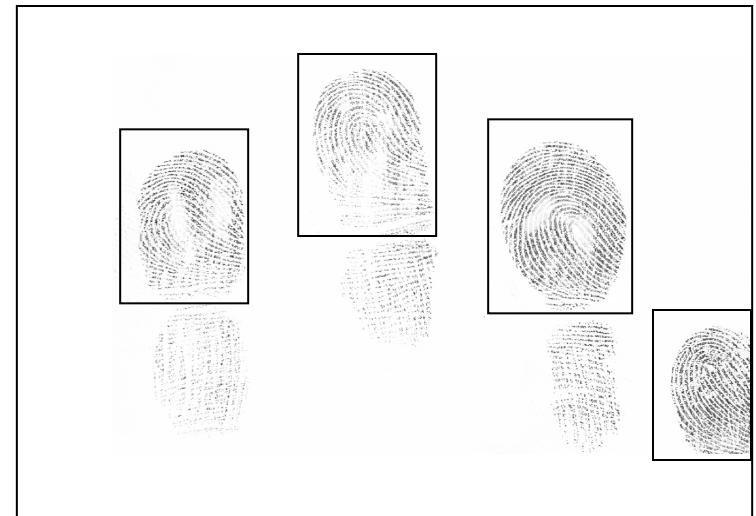
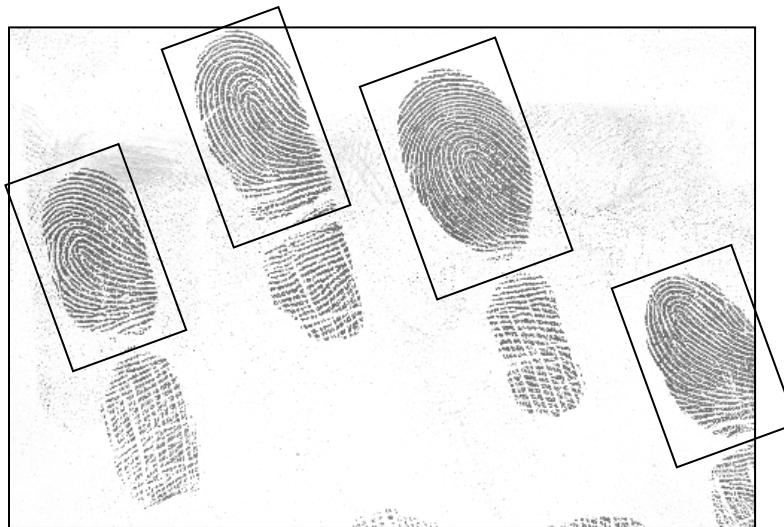
Craig Watson

IBPC 2010



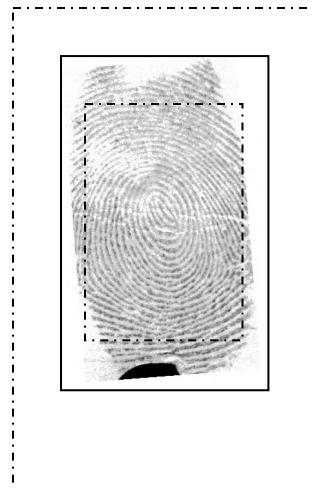
Slap Fingerprint Segmentation

fingerprint.nist.gov/slapsegII



SlapSeg04

**Ability to segment
“matchable” fingerprints**



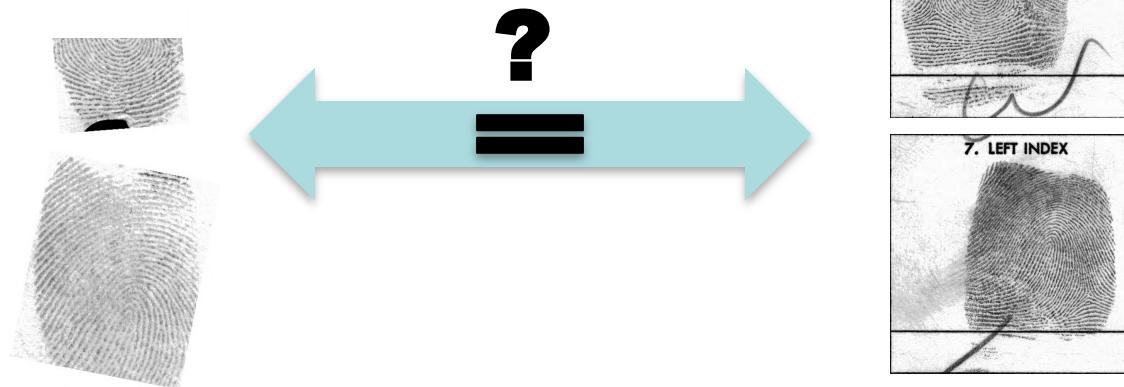
SlapSegII

**Ability to segment
fingerprints based on
hand-marked
segmentation boxes**

Segmentation and Matching

fingerprint.nist.gov/slapsegII

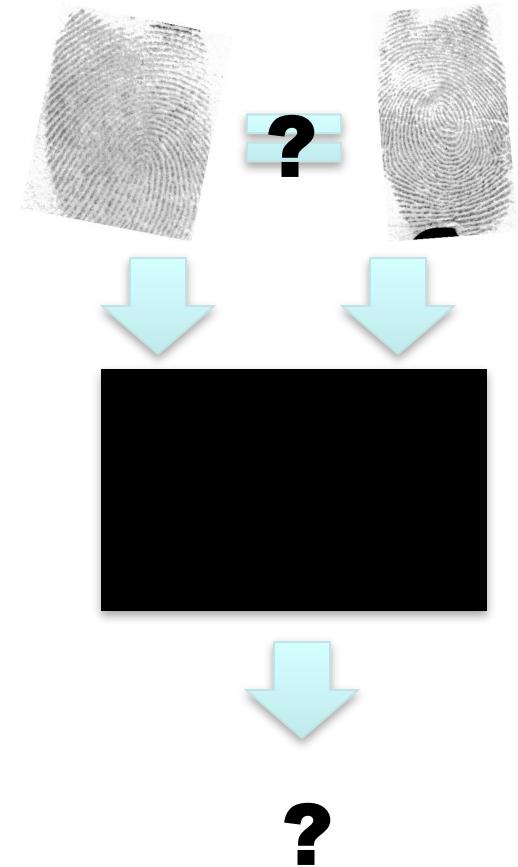
- Are best segmentation algorithms in SlapsegII close to hand marked ground truth?
- Can a good matcher compensate for bad segmentation?
- Can multiple fingers compensate for bad segmentation?



Proprietary Fingerprint Templates

fingerprint.nist.gov/PFT

- **PFT – 1-to-1 matching technology evaluation**
 - slap-slap
 - 60K mates
- **PFTII**
 - 120K mates,
 - slap-slap, slap-roll, roll-roll
 - Template sizes
 - Template extraction times
 - Matching times



Slap Fingerprint Segmentation

Proprietary Fingerprint Template

craig.watson@nist.gov

<http://biometrics.nist.gov/evaluations>

